

Chih-Ming Ho

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

13,339
citations

60
h-index

110
g-index

279
ext. papers

15,045
ext. citations

5.2
avg, IF

6.37
L-index

#	Paper	IF	Citations
240	MICRO-ELECTRO-MECHANICAL-SYSTEMS (MEMS) AND FLUID FLOWS. <i>Annual Review of Fluid Mechanics</i> , 1998 , 30, 579-612	22	980
239	Linear artificial molecular muscles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9745-59	16.4	617
238	Subharmonics and vortex merging in mixing layers. <i>Journal of Fluid Mechanics</i> , 1982 , 119, 443-473	3.7	563
237	Vortex induction and mass entrainment in a small-aspect-ratio elliptic jet. <i>Journal of Fluid Mechanics</i> , 1987 , 179, 383-405	3.7	397
236	Surface molecular property modifications for poly(dimethylsiloxane) (PDMS) based microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2009 , 7, 291-306	2.8	367
235	Dynamics of an impinging jet. Part 1. The feedback phenomenon. <i>Journal of Fluid Mechanics</i> , 1981 , 105, 119	3.7	345
234	Effective slip and friction reduction in nanogated superhydrophobic microchannels. <i>Physics of Fluids</i> , 2006 , 18, 087105	4.4	338
233	Interleukin 6 and interleukin 8 as potential biomarkers for oral cavity and oropharyngeal squamous cell carcinoma. <i>JAMA Otolaryngology</i> , 2004 , 130, 929-35		302
232	Unsteady aerodynamics and flow control for flapping wing flyers. <i>Progress in Aerospace Sciences</i> , 2003 , 39, 635-681	8.8	272
231	Transport of bubbles in square microchannels. <i>Physics of Fluids</i> , 2004 , 16, 4575-4585	4.4	265
230	Minimal size of coffee ring structure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5269-74	3.4	264
229	Nanochromatography driven by the coffee ring effect. <i>Analytical Chemistry</i> , 2011 , 83, 1871-3	7.8	229
228	Rapid electrochemical detection on a mobile phone. <i>Lab on A Chip</i> , 2013 , 13, 2950-5	7.2	215
227	Aptamer-based optical probes with separated molecular recognition and signal transduction modules. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2380-1	16.4	198
226	Scaling law in liquid drop coalescence driven by surface tension. <i>Physics of Fluids</i> , 2004 , 16, L51-L54	4.4	193
225	A nanomechanical device based on linear molecular motors. <i>Applied Physics Letters</i> , 2004 , 85, 5391-5393	3.4	189
224	Electrochemical sensor for multiplex biomarkers detection. <i>Clinical Cancer Research</i> , 2009 , 15, 4446-52	12.9	180

223	Electrokinetics in micro devices for biotechnology applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2004 , 9, 366-376	5.5	176
222	Small-scale transition in a plane mixing layer. <i>Journal of Fluid Mechanics</i> , 1990 , 210, 475-500	3.7	171
221	REVIEW: MEMS and Its Applications for Flow Control. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1996 , 118, 437-447	2.1	169
220	A MEMS based amperometric detector for E. coli bacteria using self-assembled monolayers. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 745-55	11.8	157
219	Unsteady separation in a boundary layer produced by an impinging jet. <i>Journal of Fluid Mechanics</i> , 1985 , 160, 235-256	3.7	156
218	Cell Separation by Non-Inertial Force Fields in Microfluidic Systems. <i>Mechanics Research Communications</i> , 2009 , 36, 92-103	2.2	151
217	Electrokinetic bioprocessor for concentrating cells and molecules. <i>Analytical Chemistry</i> , 2004 , 76, 6908-14.8	4.8	139
216	Closed-loop control of cellular functions using combinatory drugs guided by a stochastic search algorithm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5105-10	11.5	137
215	Titanium-alloy MEMS wing technology for a micro aerial vehicle application. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 95-103	3.9	137
214	An optimized small molecule inhibitor cocktail supports long-term maintenance of human embryonic stem cells. <i>Nature Communications</i> , 2011 , 2, 167	17.4	130
213	Detection of picomolar levels of interleukin-8 in human saliva by SPR. <i>Lab on A Chip</i> , 2005 , 5, 1017-23	7.2	122
212	Lift Force of Delta Wings. <i>Applied Mechanics Reviews</i> , 1990 , 43, 209-221	8.6	118
211	Monocyte recruitment to endothelial cells in response to oscillatory shear stress. <i>FASEB Journal</i> , 2003 , 17, 1648-57	0.9	115
210	A micromachined flow shear-stress sensor based on thermal transfer principles. <i>Journal of Microelectromechanical Systems</i> , 1999 , 8, 90-99	2.5	115
209	A chaotic mixer for magnetic bead-based micro cell sorter. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 779-790	2.5	108
208	DNA diagnostics: nanotechnology-enhanced electrochemical detection of nucleic acids. <i>Pediatric Research</i> , 2010 , 67, 458-68	3.2	106
207	Bubble dispenser in microfluidic devices. <i>Physical Review E</i> , 2005 , 72, 037302	2.4	105
206	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004 , 4, 2065-2071	11.5	101

205	Single-molecule tracing on a fluidic microchip for quantitative detection of low-abundance nucleic acids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5354-9	16.4	97
204	Dependence of macroscopic wetting on nanoscopic surface textures. <i>Langmuir</i> , 2009 , 25, 12851-4	4	95
203	Two-phase flow in microchannels with surface modifications. <i>Fluid Dynamics Research</i> , 2006 , 38, 772-786	1.2	93
202	A flexible micromachine-based shear-stress sensor array and its application to separation-point detection. <i>Sensors and Actuators A: Physical</i> , 2000 , 79, 194-203	3.9	92
201	Flexible shear-stress sensor skin and its application to unmanned aerial vehicles. <i>Sensors and Actuators A: Physical</i> , 2003 , 105, 321-329	3.9	90
200	Rapid optimization of drug combinations for the optimal angiostatic treatment of cancer. <i>Angiogenesis</i> , 2015 , 18, 233-44	10.6	85
199	Coffee ring aptasensor for rapid protein detection. <i>Langmuir</i> , 2013 , 29, 8440-6	4	84
198	The pitching delta wing. <i>AIAA Journal</i> , 1985 , 23, 1660-1665	2.1	84
197	Deformation of DNA molecules by hydrodynamic focusing. <i>Journal of Fluid Mechanics</i> , 2003 , 497, 55-65	3.7	83
196	Evaluation of synthetic linear motor-molecule actuation energetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8583-8	11.5	81
195	Left-right symmetry breaking in tissue morphogenesis via cytoskeletal mechanics. <i>Circulation Research</i> , 2012 , 110, 551-9	15.7	80
194	IC-integrated flexible shear-stress sensor skin. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 740-747	1.7	80
193	Mechanism-independent optimization of combinatorial nanodiamond and unmodified drug delivery using a phenotypically driven platform technology. <i>ACS Nano</i> , 2015 , 9, 3332-44	16.7	77
192	Bio/abiotic interface constructed from nanoscale DNA dendrimer and conducting polymer for ultrasensitive biomolecular diagnosis. <i>Small</i> , 2009 , 5, 1784-90	11	76
191	Micromachined membrane particle filters. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 184-191	3.9	76
190	Aptamer-based electrochemical biosensor for Botulinum neurotoxin. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1943-8	4.4	72
189	Enabling Technologies for Personalized and Precision Medicine. <i>Trends in Biotechnology</i> , 2020 , 38, 497-518	3.1	71
188	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. <i>Science Translational Medicine</i> , 2016 , 8, 333ra49	17.5	71

187	Dynamics of an impinging jet. Part 2. The noise generation. <i>Journal of Fluid Mechanics</i> , 1982 , 116, 379-393	3.7	71
186	Optical protein sensor for detecting cancer markers in saliva. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 266-71	11.8	68
185	Optimization of drug combinations using Feedback System Control. <i>Nature Protocols</i> , 2016 , 11, 302-15	18.8	67
184	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1679-90	15.9	67
183	A self-pumping lab-on-a-chip for rapid detection of botulinum toxin. <i>Lab on A Chip</i> , 2010 , 10, 2265-70	7.2	61
182	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part I: concept, design, and model. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 427-436	2.5	61
181	A streamlined search technology for identification of synergistic drug combinations. <i>Scientific Reports</i> , 2015 , 5, 14508	4.9	60
180	Electrochemical detection of low-copy number salivary RNA based on specific signal amplification with a hairpin probe. <i>Nucleic Acids Research</i> , 2008 , 36, e65	20.1	57
179	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. <i>Nucleic Acids Research</i> , 2002 , 30, e55	20.1	57
178	Endothelial cell dynamics under pulsating flows: significance of high versus low shear stress slew rates ($d(\tau)/dt$). <i>Annals of Biomedical Engineering</i> , 2002 , 30, 646-56	4.7	56
177	Output-driven feedback system control platform optimizes combinatorial therapy of tuberculosis using a macrophage cell culture model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2172-9	11.5	55
176	Systematic quantitative characterization of cellular responses induced by multiple signals. <i>BMC Systems Biology</i> , 2011 , 5, 88	3.5	53
175	Rapid, electrical impedance detection of bacterial pathogens using immobilized antimicrobial peptides. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 42-9		51
174	Unsteady vortical flow around three-dimensional lifting surfaces. <i>AIAA Journal</i> , 1986 , 24, 713-721	2.1	50
173	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. <i>Scientific Reports</i> , 2016 , 6, 22489	4.9	48
172	The Oral Fluid MEMS/NEMS Chip (OFMNC): diagnostic and translational applications. <i>Advances in Dental Research</i> , 2005 , 18, 3-5	2.3	47
171	A MEMS thermopneumatic silicone rubber membrane valve. <i>Sensors and Actuators A: Physical</i> , 1998 , 64, 101-108	3.9	46
170	Reconfigurable hydrophobic/hydrophilic surfaces in microelectromechanical systems (MEMS). <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 91-95	2	46

169	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. <i>Scientific Reports</i> , 2013 , 3, 3420	4.9	44
168	High aerodynamic loads on an airfoil submerged in an unsteady stream. <i>AIAA Journal</i> , 1992 , 30, 1117-1119	2.1	44
167	Visualization of a forced elliptic jet. <i>AIAA Journal</i> , 1986 , 24, 684-685	2.1	44
166	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). <i>Science Translational Medicine</i> , 2018 , 10,	17.5	43
165	A micro-electro-mechanical-system-based thermal shear-stress sensor with self-frequency compensation. <i>Measurement Science and Technology</i> , 1999 , 10, 687-696	2	41
164	Molecular effects on boundary condition in micronanoliquid flows. <i>Physics of Fluids</i> , 2008 , 20, 101512	4.4	40
163	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part II: fabrication, implementation, and characterization. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 437-447	2.5	39
162	Chaotic Mixing In Electrokinetically And Pressure Driven Micro Flows 2001 , 185-191		39
161	Efficient dielectrophoretic patterning of embryonic stem cells in energy landscapes defined by hydrogel geometries. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 3777-88	4.7	38
160	Photolithographic patterning of organosilane monolayer for generating large area two-dimensional B lymphocyte arrays. <i>Lab on A Chip</i> , 2008 , 8, 2105-12	7.2	38
159	Modulating BET Bromodomain Inhibitor ZEN-3694 and Enzalutamide Combination Dosing in a Metastatic Prostate Cancer Patient Using CURATE.AI, an Artificial Intelligence Platform. <i>Advanced Therapeutics</i> , 2018 , 1, 1800104	4.9	38
158	Serum creatinine detection by a conducting-polymer-based electrochemical sensor to identify allograft dysfunction. <i>Analytical Chemistry</i> , 2012 , 84, 7933-7	7.8	37
157	Experiments and simulations of MEMS thermal sensors for wall shear-stress measurements in aerodynamic control applications. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1640-1649	2	37
156	Application of fractional factorial designs to study drug combinations. <i>Statistics in Medicine</i> , 2013 , 32, 307-18	2.3	36
155	Cascade search for HSV-1 combinatorial drugs with high antiviral efficacy and low toxicity. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2281-92	7.3	36
154	Cell relaxation after electrodeformation: effect of latrunculin A on cytoskeletal actin. <i>Journal of Biomechanics</i> , 2005 , 38, 529-35	2.9	36
153	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1403-1410	2.5	35
152	Statistical analysis on wall shear stress of turbulent boundary layer in a channel flow using micro-shear stress imager. <i>International Journal of Heat and Fluid Flow</i> , 2000 , 21, 576-581	2.4	35

151	Out-of-plane magnetic actuators with electroplated permalloy for fluid dynamics control. <i>Sensors and Actuators A: Physical</i> , 1999 , 78, 190-197	3.9	35
150	Experimental study and nonlinear dynamic analysis of time-periodic micro chaotic mixers. <i>Journal of Fluid Mechanics</i> , 2007 , 575, 425-448	3.7	34
149	Improved micro thermal shear-stress sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1996 , 45, 570-574	5.2	33
148	Effective drug combination for nematodes discovered by output-driven feedback system control technique. <i>Science Advances</i> , 2017 , 3, eaao1254	14.3	32
147	Unsteady flow around an ogive cylinder. <i>Journal of Aircraft</i> , 1986 , 23, 520-528	1.6	32
146	Drug regimens identified and optimized by output-driven platform markedly reduce tuberculosis treatment time. <i>Nature Communications</i> , 2017 , 8, 14183	17.4	31
145	Branching patterns emerge in a mathematical model of the dynamics of lung development. <i>Journal of Physiology</i> , 2014 , 592, 313-24	3.9	30
144	Three-Dimensional Recirculation Flow in a Backward Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994 , 116, 228-232	2.1	30
143	Developing defined culture systems for human pluripotent stem cells. <i>Regenerative Medicine</i> , 2011 , 6, 623-34	2.5	29
142	Microsensors and actuators for macrofluidic control. <i>IEEE Sensors Journal</i> , 2004 , 4, 494-502	4	28
141	Robust Vortex Control of a Delta Wing by Distributed Microelectromechanical-Systems Actuators. <i>Journal of Aircraft</i> , 2000 , 37, 697-706	1.6	28
140	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. <i>Biomaterials</i> , 2012 , 33, 9019-26	15.6	27
139	Micro sensors: linking real-time oscillatory shear stress with vascular inflammatory responses. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 189-201	4.7	27
138	Sensors and actuators on non-planar substrates. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 80-88	3.9	27
137	Effects of time scales on lift of airfoils in an unsteady stream. <i>AIAA Journal</i> , 1994 , 32, 797-801	2.1	27
136	Micromachined Particle Filter With Low Power Dissipation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001 , 123, 899-908	2.1	26
135	Measurements of wall shear stress of a turbulent boundary layer using a micro-shear-stress imaging chip. <i>Fluid Dynamics Research</i> , 1999 , 24, 329-342	1.2	26
134	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	26

133	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 423-37		25
132	A dielectrophoretic chaotic mixer		25
131	Use of Fractional Factorial Designs in Antiviral Drug Studies. <i>Quality and Reliability Engineering International</i> , 2013 , 29, 299-304	2.6	24
130	Discovery of a low order drug-cell response surface for applications in personalized medicine. <i>Physical Biology</i> , 2014 , 11, 065003	3	24
129	Rapidly optimizing an aptamer based BoNT sensor by feedback system control (FSC) scheme. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 174-9	11.8	24
128	Control of global instability in a non-parallel near wake. <i>Journal of Fluid Mechanics</i> , 2000 , 404, 345-378	3.7	24
127	Vortex Dynamics of Delta Wings. <i>Lecture Notes in Engineering</i> , 1989 , 365-427		24
126	Continuous sorting of heterogeneous-sized embryoid bodies. <i>Lab on A Chip</i> , 2010 , 10, 1678-82	7.2	23
125	Surface initiated actin polymerization from top-down manufactured nanopatterns. <i>Soft Matter</i> , 2007 , 3, 541-546	3.6	23
124	Formation of high electromagnetic gradients through a particle-based microfluidic approach. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1299-1306	2	23
123	Compact plane illumination plugin device to enable light sheet fluorescence imaging of multi-cellular organisms on an inverted wide-field microscope. <i>Biomedical Optics Express</i> , 2016 , 7, 194-208	3.5	22
122	Optimizing combinations of flavonoids deriving from astragali radix in activating the regulatory element of erythropoietin by a feedback system control scheme. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 541436	2.3	22
121	An unsteady microfluidic T-form mixer perturbed by hydrodynamic pressure. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 45015	2	22
120	Phase decorrelation of coherent structures in a free shear layer. <i>Journal of Fluid Mechanics</i> , 1991 , 230, 319-337	3.7	22
119	An agar gel membrane-PDMS hybrid microfluidic device for long term single cell dynamic study. <i>Lab on A Chip</i> , 2010 , 10, 2710-9	7.2	21
118	Wetting behaviors of individual nanostructures. <i>Langmuir</i> , 2009 , 25, 6599-603	4	21
117	Integrative systems control approach for reactivating Kaposi's sarcoma-associated herpesvirus (KSHV) with combinatory drugs. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 123-30	3.7	21
116	Bandgap-assisted surface-plasmon sensing. <i>Applied Optics</i> , 2007 , 46, 3369-75	1.7	21

115	Optimizing Combination Therapy for Acute Lymphoblastic Leukemia Using a Phenotypic Personalized Medicine Digital Health Platform: Retrospective Optimization Individualizes Patient Regimens to Maximize Efficacy and Safety. <i>SLAS Technology</i> , 2017 , 22, 276-288	3	20
114	Compact Wireless Microscope for In-Situ Time Course Study of Large Scale Cell Dynamics within an Incubator. <i>Scientific Reports</i> , 2015 , 5, 18483	4.9	20
113	Pressure Drops of Water Flow Through Micromachined Particle Filters. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002 , 124, 1053-1056	2.1	20
112	Near-field pressure fluctuations of an elliptic jet. <i>AIAA Journal</i> , 1985 , 23, 354-358	2.1	20
111	In vitro reconstruction of branched tubular structures from lung epithelial cells in high cell concentration gradient environment. <i>Scientific Reports</i> , 2015 , 5, 8054	4.9	18
110	Nanomanufacturing and characterization modalities for bio-nano-informatics systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 875-91	1.3	18
109	Understanding and harnessing biomimetic molecular machines for NEMS actuation materials. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006 , 3, 254-259	4.9	18
108	Temperature fluctuations in a turbulent flame. <i>Combustion and Flame</i> , 1976 , 27, 113-123	5.3	18
107	Creation of functional micro/nano systems through top-down and bottom-up approaches. <i>MCB Molecular and Cellular Biomechanics</i> , 2009 , 6, 1-55	1.2	18
106	A novel combination of four flavonoids derived from Astragali Radix relieves the symptoms of cyclophosphamide-induced anemic rats. <i>FEBS Open Bio</i> , 2017 , 7, 318-323	2.7	17
105	A Micromachined Permalloy Magnetic Actuator Array for Micro Robotics Assembly Systems		17
104	Vortex breakdown over delta wings in unsteady freestream. <i>AIAA Journal</i> , 1994 , 32, 433-436	2.1	16
103	Artificial intelligence enabled parabolic response surface platform identifies ultra-rapid near-universal TB drug treatment regimens comprising approved drugs. <i>PLoS ONE</i> , 2019 , 14, e0215607	3.7	15
102	The Mixing Layer Forced by Fundamental and Subharmonic 1985 , 385-395		15
101	On-Chip Continuous Blood Cell Subtype Separation by Deterministic Lateral Displacement 2007 ,		14
100	Fabrication process of microsurgical tools for single-cell trapping and intracytoplasmic injection. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 940-946	2.5	14
99	A magnetic force driven chaotic micro-mixer		14
98	Unsteady Wake of a Plunging Airfoil. <i>AIAA Journal</i> , 1981 , 19, 1492-1494	2.1	14

97	Acoustical shadowgraph. <i>Physics of Fluids</i> , 1976 , 19, 1118		14
96	Preclinical optimization of a broad-spectrum anti-bladder cancer tri-drug regimen via the Feedback System Control (FSC) platform. <i>Scientific Reports</i> , 2015 , 5, 11464	4.9	13
95	Applications of MEMS devices to delta wing aircraft - From concept development to transonic flight test 2001 ,		13
94	Surface micromachined magnetic actuators		13
93	Local and Global Dynamics of Free Shear Layers 1982 , 521-533		13
92	Ultrasonication on a microfluidic chip to lyse single and multiple <i>Pseudo-nitzschia</i> for marine biotoxin analysis. <i>Biotechnology Journal</i> , 2011 , 6, 150-5	5.6	12
91	A MEMS thermopneumatic silicone membrane valve		12
90	A surface-micromachined shear stress imager		12
89	Vorticity dynamics of 2-D and 3-D wings in unsteady free stream 1991 ,		12
88	Patterns of periodic holes created by increased cell motility. <i>Interface Focus</i> , 2012 , 2, 457-64	3.9	11
87	Silicone polymer chemical vapor sensors fabricated by direct polymer patterning on substrate technique (DPPOST). <i>Sensors and Actuators B: Chemical</i> , 2006 , 116, 2-10	8.5	11
86	Unsteady Kutta Condition of a Plunging Airfoil 1981 , 197-206		11
85	Ultra-rapid near universal TB drug regimen identified via parabolic response surface platform cures mice of both conventional and high susceptibility. <i>PLoS ONE</i> , 2018 , 13, e0207469	3.7	11
84	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. <i>Journal of Biological Engineering</i> , 2017 , 11, 12	6.3	10
83	A parametrized three-dimensional model for MEMS thermal shear-stress sensors. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 625-633	2.5	10
82	Multilayer SU-8 based microdispenser for microarray assay. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 714-725	3.9	10
81	Analog VLSI system for active drag reduction. <i>IEEE Micro</i> , 1996 , 16, 53-59	1.8	10
80	Vortex breakdown over delta wings in unsteady free stream 1993 ,		10

79	Evolution of Coherent Structures in a Lip Jet 1983 , 121-136		10
78	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. <i>RSC Advances</i> , 2016 , 6, 44425-44434	3-7	10
77	Control of Kaposi's sarcoma-associated herpesvirus reactivation induced by multiple signals. <i>PLoS ONE</i> , 2011 , 6, e20998	3-7	9
76	MEMS - A technology for advancements in aerospace engineering 1997 ,		9
75	An integrated MEMS system for turbulent boundary layer control		9
74	A flexible MEMS technology and its first application to shear stress sensor skin		8
73	A novel microinjector with virtual chamber neck		8
72	Dissipation scale and control of fine-scale turbulence in a plane mixing layer. <i>Journal of Fluid Mechanics</i> , 1996 , 320, 139	3-7	8
71	An Alternative Look at the Unsteady Separation Phenomenon 1986 , 165-178		8
70	Continuous Adaptive Population Reduction (CAPR) for Differential Evolution Optimization. <i>SLAS Technology</i> , 2017 , 22, 289-305	3	7
69	Three dimensional tubular structure self-assembled by vascular mesenchymal cells at stiffness interfaces of hydrogels. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 83, 1203-1211	7-5	7
68	Optoelectronic reconfigurable microchannels. <i>Lab on A Chip</i> , 2012 , 12, 5086-92	7-2	7
67	A high-order alternating direction implicit method for the unsteady convection-dominated diffusion problem. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 703-712	1-9	7
66	Flexible parylene-valved skin for adaptive flow control		7
65	Chaotic mixing in electrokinetically and pressure driven micro flows		7
64	Response of a split film probe under electrical perturbations. <i>Review of Scientific Instruments</i> , 1982 , 53, 1240-1245	1-7	7
63	Sound generated by a single cambered blade in wake cutting. <i>AIAA Journal</i> , 1976 , 14, 763-766	2-1	7
62	Harnessing Artificial Intelligence to Optimize Long-Term Maintenance Dosing for Antiretroviral-Naive Adults with HIV-1 Infection. <i>Advanced Therapeutics</i> , 2020 , 3, 1900114	4-9	7

61	System control-mediated drug delivery towards complex systems via nanodiamond carriers. <i>International Journal of Smart and Nano Materials</i> , 2010 , 1, 69-81	3.6	6
60	In situ infrared spectroscopic studies of molecular behavior in nanoelectronic devices		6
59	Out-of-plane permalloy magnetic actuators for delta-wing control		6
58	Characterization of a MEMS-Fabricated Mixing Device 2000 ,		6
57	Microfluidic System for Biological Agent Detection 2000 , 159-168		6
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